

## Optical-Module Parameter Inquiry and Alarm Commands

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## Chapter 1 Optical-Module Parameter Inquiry and Alarm Commands

### 1.1 show epon optical-transceiver-diagnosis

#### Syntax

To display the optical-module parameters of the PON port, run the following command.

**show gpon optical-transceiver-diagnosis** [**interface {gpon slot/port | gpon slot/port:sequence}**]

#### Parameter

Parameter	Description
Slot	Means the slot of the GPON card
Port	Means the ID of the PON port.
sequence	Means the LLID number.

#### Default value

#### Command mode

Any mode

#### Usage Guidelines

If the port is not designated, all UP ports' optical-module parameters will be displayed. If the designated port is a GPON port, the light reception power will not be displayed. If the designated port is an LLID port, the light reception power for the ONU on the GPON port is displayed.

#### Example

The following example shows how to show the optical module information of GPON0/1 interface:

```
Switch# show gpon optical-transceiver-diagnosis interface gpon 0/1
interface   Temperature(degree)  Voltage(V)  Current(mA)  TxPower(dBm)
-----
gpon0/1     33.6                3.3         11.0         3.5
```

```
interface    RxPower(dBm)
```

```
-----  -----
```

```
gpon0/1:1    -27.9
```

The following example shows how to show the optical module parameters of all UP port:

```
Switch# show gpon optical-transceiver-diagnosis
```

```
interface    Temperature(degree)    Voltage(V)    Current(mA)    TxPower(dBm)
-----  -----  -----  -----  -----
```

```
gpon0/1      33.6                    3.3          11.1          3.5
```

## 1.2 gpon optical-transceiver

### Syntax

To enable the optical-module parameter alarm on a PON port, run the following command. To return to the default setting, use the no form of this command.

**gpon optical-transceiver {power-tx | power-rx | temperature | voltage | current} {high-limit | low-limit} {enable threshold alarm-value clear-value | disable}**

**no gpon optical-transceiver {power-tx | power-rx | temperature | voltage | current} {high-limit | low-limit} enable**

### Parameter

Parameter	Description
<b>power-tx</b>	Forwarding optical power alarm
<b>power-rx</b>	Receiving optical power alarm
<b>temperature</b>	Temperature alarm
<b>voltage</b>	Voltage alarm
<b>current</b>	Current alarm
<b>high-limit</b>	Alarm high limit range setting
<b>low-limit</b>	Alarm low limit range setting
<b>enable</b>	Alarm enable
<b>disable</b>	Alarm disable
<i>alarm-value</i>	Alarm threshold; the electric quantity range: -400 to 82, unit: 0.1dbm; the

	temperature range: -1280 to 1280, unit: 0.1degree-F; the voltage range: 0 to 65, unit: 0.1v; the current range: 0 to 1310, unit: 0.1mA.
<i>clear-value</i>	Alarm clear threshold: the electricity quantity range: -400 to 82, unit 0.1dbm; temperature range: -1280-1280, unit: 0.1degree-F; voltage range: 0 to 65, unit: 0.1v; the current range: 0 to 1310, unit 0.1mA.

### Default value

The alarm is disabled.

### Command mode

GPON interface configuration mode

### Usage Guidelines

The correct alarm information can be generated only when the global optical module parameter monitoring function is enabled (that is, global configuration ddm enable).

### Example

The example shows how to set the temperature alarm threshold to 200°F to 300°F on the port GPON0/1.

```
Switch_config# interface GPON0/1
```

```
Switch_config_GPON0/1# gpon optical-transceiver temperature high-limit enable threshold  
300 200
```